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2 Generalized small-signal dynamical modeling of multi-port DC-DC converters

Hamill, D.C.;

Power Electronics Specialists Conference, 1997. PESC '97 Record., 28th Annual IEEE , Volume: 1 , 22-27 June 1997
Pages:421 - 427 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) **IEEE CNF**

3 MOVIE: a building block for the design of real time simulator of moving pictures compression algorithms

Barzic, R.; Bouville, C.; Charot, F.; Le Fol, G.; Lemonnier, P.; Wagner, C.;

Application Specific Array Processors, 1995. Proceedings., International Conference on , 24-26 July 1995
Pages:193 - 203

[\[Abstract\]](#) [\[PDF Full-Text \(576 KB\)\]](#) **IEEE CNF**

4 Simultaneous bidirectional signalling for IC systems

Lam, K.; Dennison, L.R.; Dally, W.J.;

Computer Design: VLSI in Computers and Processors, 1990. ICCD '90. Proceedings., 1990 IEEE International Conference on , 17-19 Sept. 1990
Pages:430 - 433

[\[Abstract\]](#) [\[PDF Full-Text \(404 KB\)\]](#) **IEEE CNF**

5 **Signal integrity analysis of high-speed, high-pin-count digital packages**

Tsai, C.-T.;
Electronic Components and Technology Conference, 1990. Proceedings., 40th , 20-23 May 1990
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1 Optimised wavelength-set multi-stage broadband access network employing arrayed-waveguide grating routers

Parker, M.C.; Farjady, F.; Walker, S.D.;

Multiwavelength Optical Networks: Devices, Systems and Network

Implementations (Ref. No. 1998/257), IEE Colloquium on , 17 June 1998

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2 A236 parallel DSP chip provides real-time video processing economically and efficiently

Morton, S.G.;

ELECTRO '96. Professional Program. Proceedings. , 30 April-2 May 1996

Pages:261 - 268

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3 Hybridly integrated optical transceiver module for access networks

Uno, T.; Nishikawa, T.; Mitsuda, M.; Tohmon, G.; Matsui, Y.;

Electronic Components and Technology Conference, 1998. 48th IEEE , 25-28 May 1998

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